PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applica	nt's or agent's file reference							
04R00008		FOR FURTHER AC		See Form PCT/IPEA/416				
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)				
PCT/JP2004/004364 26.03.		26.03.2004		28.03.2003				
Applica	·	C) or national classification and IP	c 					
1.		nal preliminary examination report tted to the applicant according to		International Preliminary Examining Authority				
2.	This REPORT consists of a	total of <u>4</u>	sheets, including	g this cover sheet.				
3.	3. This report is also accompanied by ANNEXES, comprising:							
	a. (sent to the appli	cant and to the International Bure	au) a total of 8	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
								4.
	Box No. I Ba	sis of the report						
	Box No. II Pr	iority						
	Box No. III No	on-establishment of opinion with r	egard to novelty, invent	tive step and industrial applicability				
	Box No. IV La	ck of unity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI Ce	rtain documents cited						
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
Date of	submission of the demand	ſ	Date of completion of th	nis report				
Name a	and mailing address of the IPE.	A/JP A	Authorized officer					
Facsimi	ile No.		elephone No.					

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/004364

Box	No. I	Basis of the report					
1.		d to the language, this report is based on the internation under this item.	nal application in the language in	which it was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:						
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4))				
		international preliminary examination (Rule 55.2 and/	•				
2.	receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are no this report):						
	\square	nternational application as originally filed/furnished					
	page		manipud by this Authority on	as originally filed/furnished			
	page		received by this Authority on received by this Authority on				
	page:		received by this Additionty on				
	Z anc c	claims:					
	nos.	2-4,26-27	· · · · · · · · · · · · · · · · · · ·	as originally filed/furnished			
	nos.*			r with any statement) under Article 19			
	nos.*		received by this Authority on	29.10.2004			
	nos.4		received by this Authority on	28.07.2005			
	the d	trawings:					
	sheet	ts <u>1-22</u>	<u> </u>	as originally filed/furnished			
	sheet						
	sheet	ts*	received by this Authority on				
l	a sec	quence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence I	isting.			
3.	The	amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
	the sequence listing (specify):						
		any table(s) related to sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
L*	If item 4 a	pplies, some or all of those sheets may be marked "sup	erseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/004364

Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)	Claims	1-38	YES	
		Claims		NO	
	Inventive step (IS)	Claims	8-34	YES	
		Claims	1-7, 35-38	NO	
	Industrial applicability (IA)	Claims	1-38	YES	
		Claims		NO	
I					

2. Citations and explanations (Rule 70.7)

Document 1: JP 07-038909 A1

Document 2: JP 10-187096 A1

Document 3: JP 2001-111916 A1

Document 4: JP 08-150210 A1

Document 5: JP 11-144510 A1

Document 6: JP 2000-252084 A1

(1) Invention set forth in claims 1 to 7, 35 to 38

It is well known that by appropriately controlling the color temperature of a display screen a relaxing atmosphere is created and eye fatigue is prevented (see, for example, JP 2001-009036 A, JP 11-296272 A, JP 11-096809 A, JP 10-049126 A, JP 08-266477 A), and that biological rhythm can be adjusted by intentionally varying the color temperature of illuminating light (see, for example, JP 2003-088479 A, JP 2003-004278 A, JP 2000-294388 A, JP 08-193738 A).

Taking these facts in account, looking at documents 1 to 6, documents 1 and 2 set forth a display device which is capable of automatically adjusting the brightness and color of a screen based on time information and the brightness of the environment, etc.;

International application No.
PCT/JP2004/004364

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

document 3 sets forth a display device capable of automatically adjusting the brightness of a screen based on the time of day and the image genre; and documents 4 to 6 set forth the impact of the color of emitted light on biological rhythms. In particular, document 5 indicates that a plasma display, LCD panel or the like is used to project a relaxing image on the ceiling, based on the presumption that the coloring of emitted light has an impact on biological rhythms.

It would therefore be easy for a person skilled in the art to conceive of controlling the color temperature of a screen according to purpose in order to adjust biological rhythms, in the display device set forth in documents 1 to 3.

(2) Invention set forth in claims 8 to 22

None of the documents cited in the international search report indicates that the percentage of fluctuation in light intensity of a first light-emitting body is made larger than other light-emitting bodies by using an image signal to switch the properties of light-emitting intensity of a first light-emitting body.

(3) Invention set forth in claims 23 to 34

None of the documents cited in the international search report indicates that the light-emitting intensity of a first light-emitting body is made selectable

independently of a white light-emitting body.